



NEWSLETTER  
DECEMBER, 1984.

### Federal President's Column.

Being unable to attend the Biennial Conference of the Society, hosted by my own State branch, was one thing to bear on its own, but to learn that I have been given the honour of being elected its Federal President in absence gives me an immense feeling of pride.

The New South Wales Branch of our Society has come a long way. The Conference, I am told, was worthy of praise from all those colleagues who attended the Sydney Opera House in October. Thank you to Stephen Wei, Joe Verco and Peter Gregory, for their presentations. Most important, a 'thank you' to Tom Mackay for standing in as chairman in my absence, and to Richard Widmer, Alain Middleton, Lorna Mitchell and sundry organisers.

With a new Federal Executive for the forthcoming two years, I welcome their enthusiasm and congratulate them on their success and honour. I want to thank those who have retired from Federal Council for their contribution and efforts during the last two years, particularly John Brownbill as Secretary/Treasurer and Kevin Allen who was the Immediate Past President. Des Kailis must be given praise for his term as President and I shall welcome his advice in his new position on the Council.

Welcome new and greetings to old members of the Society. May I wish you all the Compliments of the Season.

John Lockwood.

### Federal Secretary's Report

Meetings of Council were held at the time of the Convention. The retiring Council met twice before the General Meeting, and the new Council met after the closing of the Convention.

The new Council comprised,  
Dr. John Lockwood, N.S.W., Dr. B. Tidswell, S.A., Dr. J. Keys, Q'ld., Prof. D. Kailis, W.A., Dr. F. Goldschmeid, Tas, Dr. J. Lucas, Vic.

The Office Bearers are:-

President: Dr. John Lockwood  
Vice Pres: Dr. Bruce Tidswell  
Sec/Treas: Dr. John Keys  
Imm.Past.Pres: Prof. Des Kailis

As the new Secretary/Treasurer I seek the co-operation of all members of all branches 1. to ensure that your dues are paid up-to-date and 2. to notify your Branch Secretary of any change(s) of address.

### Biennial Conventions

Biennial Conventions are intended to provide a special opportunity for members from all branches to meet together for their personal and professional benefit and to promote the well-being of the Society. The 5th Convention achieved this objective - well done N.S.W.

The 6th Biennial Convention will be held in Adelaide in October 1986.

John Keys

### The 5th Biennial Convention

Approximately ninety dentists from New South Wales, Victoria, South Australia, Queensland, Western Australia, and Northern Territory, together with three from overseas, New Zealand, Oman and Sweden gathered at the Sydney Opera House for the A.S.D.C. Fifth Biennial Convention, hosted by the New South Wales Branch. The venue, with its spectacular views of the harbour as a backdrop, proved popular with the participants and somewhat compensated for the weather which was not quite as pleasant as expected for Sydney at this time of year.

The pre-meeting Cocktail Party on the Wednesday evening before the Convention was a great success - this was the message conveyed by all those who were able to attend it. Many thanks go to Colgate Palmolive who sponsored it.

The General Meeting of the Society, held first thing on Thursday morning, started late because of poor attendance, so clearly this 'time slot' on the programme is not a good one to choose for the Society's General Meeting.

The Conference was officially opened by Dr. Andrew Refshauge, M.L.A. Merrickville, representing the Premier of New South Wales. His remarks were challenging and thought provoking and demonstrated that at least some politicians display an interest in dental health.

Dr. Tom Mackay, representing Dr. John Lockwood, the N.S.W. Branch President who was overseas representing Australia in a Sailing Championship, welcomed one and all to the meeting and introduced the principle guest speaker, Professor Stephen Wei.

In his opening remarks, Professor Wei thanked the Society for the opportunity of revisiting Australia (he is an Adelaide Graduate), gave us a brief resume of his curriculum vitae, and presented a series of slides showing the University of Hong Kong Dental School, where he had assumed his current position, Professor and Head of Department of Children's Dentistry, only six weeks prior to this Conference. Professor Wei then presented the first of his five lectures,

"Advances in Preventive Dentistry"

The other lectures were titled -

"Advances in Fluoride Therapy"

"Advances in Restorative Dentistry for Children"

"Interceptive Orthodontics"

"Advances in Paedodontic Research"

During two days Professor Wei guided participants on a whirlwind tour of advances in Paedodontics and he is to be congratulated for his high standard of presentation. His wide and in-depth knowledge and expertise in both clinical and academic pursuits were clearly in evidence. Personally I would have preferred more time devoted to the 'Fluoride' area, but it is impossible to please everyone. Professor Wei's presentations were supplemented by current References which added interest.

In addition to Professor Wei's contribution, two lectures were presented by Dr. Peter Gregory from Perth, and Dr. Joe Verco from Adelaide. Dr. Gregory's "Trauma to Deciduous Teeth and its implications for the Permanent Successors" was an **extremely** interesting and well illustrated presentation dealing with an area somewhat devoid of much research. Dr. Verco's "Restoration of Grossly Decayed Anterior Teeth", included an update on some dietary problems and on the use of Formocresol, and other agents in Pulpotomy.

The Summit Restaurant proved a suitable environment for the conference dinner: the views were spectacular, the company very pleasant and the meal enjoyable. These social occasions play an important role in the future of the Society, and more members should be encouraged to attend.

Overall, the Fifth Biennial Convention was very successful and the N.S.W. Branch is to be congratulated.

John Kibble

## FROM THE BRANCHES

### N.S.W. Branch

All attention has focused on the 5th Biennial Convention held on October 18th-19th, 1984 at the Sydney Opera House. Final attendance was good and the venue, as always, was very pleasant and highlighted the best of Sydney.

The cocktail party on Wednesday evening allowed those who attended to get to know others in a casual and unusual surroundings. The Crafts Council Gallery, an historic building converted to a gallery, presently contains an exhibit of Indonesian artifacts.

In the Lecture programme, Professor Wei spoke at length in four Talks on the latest practical preventive measures in the various fields of preventive dentistry and backed up his lectures with an extensive up-to-date slide presentation.

Dr. P. Gregory and Dr. Joe Verco both showed that the local lads were able to perform on equal footing with our Guest Lecturer, and each gave an excellent presentation. Both gave clear, logical presentations of their subjects that were well suited for implementation in everyday practice.

The Convention Dinner was held at the Summit Restaurant towering over Sydney with spectacular and ever changing views of the city at night.

The next meeting of the Branch will be held on November 20th; this is our Annual General Meeting and Election of Office Bearers for the ensuing year. Also Dr. Tissa Jayasekera will be giving a Paper on "Anxiety Behaviour in Children".

To all the members of other branches - A Merry Christmas and a Happy New Year; I will take this opportunity to thank all the present and immediate past office bearers of the various state branches and the Federal Body for their support in what has been a busy and successful year for the N.S.W. Branch.

Alain Middleton

The production of this Newsletter  
has been assisted by  
Colgate Palmolive Pty. Ltd.

### S.A. Branch

Our regular bi-monthly meeting was held on 18th September at the Adelaide Children's Hospital and was preceded by a Smorgasbord dinner.

A lecture with slides, and display of instruments, was given by Dr. P. Boyd Turner, a Veterinary Surgeon, who recently had attended a meeting in U.S.A. dealing with Veterinary Dentistry, spoke to us on "Recent Advances in Veterinary Dentistry". It was most interesting to find that domesticated pets, i.e. cats and dogs, which consume modern pet foods, have dental problems similar to those suffered by human beings. The most distressing problem appears to be periodontal disease. Although the processed pet foods contain the necessary elements for the nutrition of these pet animals, it appears that the lack of natural stimulation of the gingivae leads to serious periodontal problems. Dr. Boyd Turner showed slides of animals suffering from dental diseases, and also other slides depicting methods of treatment. Most of the treatment is carried out under general anaesthesia, the most common procedures being scaling, polishing, restorations, extractions, and even some root canal therapy and orthodontia. In the U.S.A. apparently Veterinary Dentistry is becoming increasingly popular and there is an increasing demand for it. 'Preventive' dentistry for pets is only in its very early stages, and is concentrated on oral hygiene rather than dietary changes. There are tooth brushes etc. available, made especially for pets, with appropriately flavoured toothpastes to go with them, e.g. Beef Flavour Dental Paste.

This particular dinner meeting was intended to be a departure from our usual child orientated discussions and as such it was successful as well as very informative.

Our next meeting will be held in November when we intend to hold a Clinical Meeting featuring Cleft Lip and Palate Surgery, when baby patients, recently operated upon will be accessible for examination in the Ward. Arrangements for this are still under way, so it is hoped that the exercise will be a success.

Vita Iuks

#### W.A. Branch

Since the last Newsletter, the branch has had its final two meetings for 1984. The first of these was on 26th September at A.D.A. House in West Perth. The meeting was addressed by Professor Des Kailis who provided a "Fluoride Update". Des was grateful for the opportunity to update his own knowledge on fluoride in anticipation of his chance to hear Stephen Wei at the Federal A.S.D.C. Convention in Sydney in October. Des was of the opinion that in Perth now we are at the point of "Fluoride over-kill" and that dentists should be aware that some patients are perhaps getting more fluoride than is necessary or even safely tolerated.

The final meeting for the year was the Annual General Meeting and Dinner, on 21st November, at the Sheraton Hotel in Perth. Branch President, David Neesham, had great pleasure in announcing he was to be succeeded by Peter Gregory as President. After a most pleasant meal, members and their partners were treated to an extremely entertaining after dinner talk by Perth Paediatrician, Dr. Ian Wallman. Apart from the well spun anecdotes, Ian had some interesting historical medical observations to make. It was particularly interesting to be reminded that the association between tetracycline and the staining of bones and also of teeth was first recognised in Australia.

Alistair Devlin

#### Victorian Branch

Since the last newsletter, the Branch has completed its 7th Annual Convention Day and the last dinner meeting for 1984.

The Convention Day, on 7th September, was attended by 55 members and guests. Topics from Oral Surgery in Children to Child Management were covered and an enjoyable day was spent aided by the scenery at the Kooyong Tennis Courts. A suggestion has been made of extending an invitation to an overseas speaker to join us for our 8th Convention Day in 1985. More of this if the proposals.

#### Victorian Branch continued

Our last dinner meeting for the year was held in October, when Mr. Tony Holmes of the Cranio-facial Unit at the Royal Childrens Hospital Melbourne discussed his work. As had been predicted there was a good turnout and interest was high on this subject which was very well presented by our guest.

The wind up to our year's activities is to be held on 22nd November at the Town House in Melbourne, preceeded by the Annual General Meeting. The Executive is changing again this year with nominations open for the positions of Vice-President, and Secretary/Treasurer.

The Branch has had a successful year in 1984 with an increase in membership which now totals 74. We look forward to 1985 with a fairly busy schedule.

The Victorian Branch wishes all members of A.S.D.C. a very merry Christmas and an exciting and satisfying New Year.

Michael Morgan

#### Tasmanian Branch

A Dinner Meeting of the Branch was held on 16th October. At this meeting the Office bearers for 1984/85 were elected.

President: Dr. David Abbott

Secretary: Dr. Tein Sanggasurya

Treasurer: Dr. Charles Chan

It was pleasing to see a number of new prospective members attend the Dinner Meeting and there is every chance that our membership will increase in the forthcoming months.

It is intended to continue in the format initiated in the past with Dinner Meetings and informal discussions relating to matters of interest to all members.

With Best Wishes for 1985.

Felix Goldschmeid

\*\*\* I.A.D.C. 10th CONGRESS

San Jose, Costa Rica. Feb. 20-24, 1985.

See page 8.

### The Restoration of Grossly Decayed Anterior Teeth.

(A Summary of a Paper delivered by P.J.W. Verco\* at the 5th Biennial Convention)

The descriptive terms of Nursing Bottle Habit, Bottle Mouth, Night Bottle Feeding, and 'At will Breast Feeding' are some which have been used where dental caries has resulted to a gross degree, as nursing is continued beyond a recommended age for weaning (11.5 - 13.8 months) or is done excessively.

Maxillary primary incisors have an important role to aid in mastication, speech, the prevention of deleterious oral habits and space loss, eruption of the permanent incisors and the development of facial form and esthetics. Above all one should strive to maintain the integrity of the dental arches.

#### 1. Diet and Today's Infant

Present day processed foods evolved during World War II as a result of military technology. Now consumers are offered the advantages of convenience, reliability and availability of a selection of foods free from geographical and seasonal constraints.

Consumers face problems in selecting processed foods as many contain excessive amounts of sugar, salt and fat. Some ingredients are hidden from produce labels and a number of advertisements are spurious and misleading on the nutritional value of products. Of practical significance, '100% Orange Juice' may contain up to 4% sugar legally, unless labelled 'unsweetened'.

Dr. John Brown (1983) has found that 'Bottle Caries' occurred in 20% of children less than 6 years old in less affluent areas of Australian children. In 86% the particular pattern of sugar intake ceased an average of 18 months prior to the first dental examination.

In Melbourne, Eric Reynolds (1980) found that a 0.2 millimolar sucrose solution was enough to produce a cariogenic environment.

The Paediatric dentist has a role in not only prenatal counselling for the pregnant mother but also in supervising the dental development of the infant, (ideally from the time of the appearance of its first tooth).

#### 2. The Formocresol Saga

The victim of 'Nursing Bottle Caries' may be present with many pulpally involved teeth.

The rationale of using a 50/50 mix has been questioned and the American Academy of Paediatric Dentistry (1984) has recommended that a 1/5 dilution of Formocresol be used for all pulpotomy procedures.

Other workers have investigated various dilutions, Straffon & Han (1968) 1/50, Loos & Han (1971) 1/5, Verco (1975) 1/10 - 1/1000, Gazi (1981) 50% dilution.

Also, Garcia-Godoy (1982) found a one minute application least inflammatory compared with three and five minute applications.

Concern should be expressed over the use of plain ZOE and the work of Magnussen (1971) who indicated that chronic inflammation and internal resorption are possible sequelae.

Despite Farrington's suggestion that patients with a history of Rheumatic Fever should not have Pulpotomies, Dr.E.Goldblatt, Director of Cardiology, Adelaide Children's Hospital, in the light of recent revised recommendations, has suggested a 'one dose' Antibiotic cover for dental patients with heart disease.

The body may have a method of degrading formaldehyde through a 'one carbon cycle' in which Methylene H<sub>4</sub> folate is oxidised or reduced (Ranly '84). Also McMartin et al ('79) indicated a half life of formaldehyde of 1½ minutes. Hence it may be that formocresol is safe when used in a properly quantitated manner for a shorter time.

#### 3. Alternatives to Formocresol

Although Gluteraldehyde has shown success rates of 90% over a 12 month period (Kopel 1980) and 96.4% (Garcia-Godoy 1983), the possibility of creating antigenic products upon its reaction with autologous tissue is a major drawback (Ranly & Lazzari '83).

In Australia I.C.I. produce Aldecide 28 (2%) and Johnson & Johnson produce Cidex which is not so stable.

Also, reagents such as 'dimethylsuberimidate' deserve further investigation.

Other topics were 'Resurrection with Resins' and 'Partial Dentures and Plastic smiles'.

\* P.J.W. Verco M.D.S. Adelaide.

ONCE IS ENOUGH.

Childhood and adolescence are times of peak caries activity. These times also seem to be ones of maximum tissue radiosensitivity. Does a second panoramic X-ray during this developmental period, taken in addition to a baseline film, yield valuable information?

To investigate this question, the records of 22 children (6 to 14 years of age) were examined. Each patient had had two panoramic radiographs taken. The average age of patients when the first film was taken was 8 years 2 months, and their average age at the time of the second film was 10 years 11 months.

Two pedodontists independently read each set of radiographs using a standard view box. To minimize familiarity with the cases, there was a four-week delay between readings. For each film, the dentists completed an evaluation form recording positive findings for anomalies in position of permanent teeth, eruption/resorption conditions of permanent teeth or delayed resorption or overretention of primary teeth. Also, calcification of third molars was assessed. The diagnostic value of the second film was determined by comparing the findings on the questionnaire for each patient.

Three patients had anomalies in tooth position that were detectable in both films. Eight patients had a developmental condition detectable in the first films and nine such conditions were seen on the second film. Six patients had detectable evidence of third molar calcification on the first films whereas on the second films such calcification was evident in 18 patients. Agreement between the two clinicians was 100% on first and second films for tooth position. Agreement on eruption/resorption was 64% on the first and 87% on the second film. As to detecting third molars, agreement was 95% for both films.

These findings show that some conditions, such as eruption/resorption problems and calcification of third molars may not be apparent at the time of the first panoramic X-ray when the child is seven or eight years old and the dentition is mixed. Despite this, a subsequent film is likely to yield limited information. No change in tooth position (excluding third molars) should be anticipated although disturbances in exfoliation

or eruption may be detected. However, some of these conditions would be apparent during the clinical examination. Practitioners should try to minimize the child's exposure to ionizing radiation and the decision to take a second panoramic radiograph should be made on the basis of clinical findings and the likelihood that radiographic findings will alter treatment.

(Myers, David et al. J. Pedod. 8(2):160-164 1984)

EFFECT OF CITRIC ACID PRETREATMENT ON DENTINAL CAVITY WALLS.

Pretreatment of enamel with various acid solutions has been evaluated and reported as an acceptable means to improve the bonding mechanisms of resinous materials. Improving bonding to dentine has proved to be more complex.

A scanning electron microscope study has shown the presence of 'smear layer' on cut tooth surfaces. This smear layer may change the morphology and the physicochemical properties of the surface of the dentine and thereby influence the retention of restorations.

This study showed that both 1% aqueous citric acid and 1% citric acid in 30% ethanol proved to be excellent smear removers. On mesial, distal, incisal, and gingival walls, both solutions cleaned effectively; on axial walls 1% aqueous citric acid cleaned significantly better. The solutions were applied for one minute. The pulpal response to dilute citric acid is still being investigated.

(McInnes-Ledoux, P. et al J. Prosthet. D. 52(3):353-358. Sept. 1984)

CLINICIAN COMPLIANCE AND THE PREVENTION OF BACTERIAL ENDOCARDITIS.

Risk for bacterial endocarditis can be viewed in two ways: first, as a function of the patient's medical history, and second, as a function of the dental procedure involved. Heart Associations have recommended that patients with damaged or abnormal heart valves caused by rheumatic or congenital heart disease, or patients with valvular prostheses, should receive an antibiotic prophylactic regimen for all procedures likely to cause bleeding. This study confirmed the results of previous studies that clinicians do not comply with these recommendations, and in addition, the levels of compliance vary according to patient risk category and clinician specialty group membership.

(Sadowsky, D. et al J.A.D.A. 109(3) Sept 1984)

**10TH CONGRESS  
INTERNATIONAL  
ASSOCIATION  
OF  
DENTISTRY  
FOR  
CHILDREN  
I.A.D.C.**

**FEBRUARY 20-24  
1985  
SAN JOSE, COSTA RICA**

**OFFICIERS:**  
Dr. Raymond Pauly S. (Président)  
Dr. Leticia Tristán Ch. (Secrétaire)  
Dr. Oscar Vargas F. (Trésorier)



**PRELIMINARY PROGRAM**

**WEDNESDAY  
February 20th**

**Morning**  
9-10:30 **OPENING CEREMONY**  
Coffee  
(Official Social Program)  
10:30-11  
11-12 **LECTURE**  
Dr. Franklin Pulver  
University of Toronto  
**THE ACID ETCH TECHNIC**  
—Current status in the young  
permanent dentition—  
**Noon**  
**Lunch**  
**Afternoon**  
2-6 (Official Social Program)  
**POST GRADUATE COURSE**  
1) Dr. Franklin García-Godoy  
Santo Domingo, Dominican Republic  
**PULPTHERAPY**  
—Primary dentition—  
2) Dr. Olivera Vojinović  
University of Belgrade  
**PULPTHERAPY**  
—Young permanent dentition—  
**Evening**  
8:00 **WELCOME COCKTAIL**  
Hotel Cariari  
(Official Social Program)

**FRIDAY  
February 22nd**

**Morning**  
8-12 **Free papers**  
**Afternoon**  
2-8 ... or until you want to leave.  
**COSTARRICAN FIESTA**  
(El Tajo — Hotel Cariari)  
(Official Social Program)  
Exhibition and performance of  
costarrican horses  
Bull (calf) fighting\*  
Typical costumes\*\*  
Folkloric and national dances  
Orchestra and dancing  
Country Band ("Cimarrona")  
Typical food  
Soft and alcoholic drinks  
(as much as you can drink)  
Many other surprises  
\* Visitors are invited to fight the "bull"  
\*\* We friendly suggest to all the visitors,  
to bring with them for this occasion, the  
typical costumes of their respective  
countries

**FREE EVENING...** if you still have energy to do something else

**OFFICIAL AIRLINE:**  
LACSA (Líneas Aéreas Costarricenses S.A.)  
P.O. Box 1531 1.000 San José, Costa Rica

**THURSDAY  
February 21st**

**Morning**  
8-12 **POSTGRADUATE COURSE**  
Dr. Kenneth D. Snawder  
University of Indiana  
**PEDODONTICS AND PEDIATRICS**  
**Noon**  
**Lunch**  
**Afternoon**  
2-6 (Official Social Program)  
**SEMINAR**  
**PUBLIC HEALTH AND INSTITUTIONAL  
DENTISTRY IN PEDODONTICS**  
Dr. Sven Poulsen, Denmark  
Dr. Francisco Bianchini, Costa Rica  
**Free papers**  
**Evening**  
8:00 **JUVENILE SYMPHONIC  
ORCHESTRA OF COSTA RICA**  
National Theater  
(Official Social Program)  
**8-12 and 2-6 PORTERS and  
COMMERCIAL EXHIBITS**

**SATURDAY  
February 23rd**

**Morning**  
8-9:45 **LECTURE**  
Dr. Clifton O. Dummett  
Louisiana State University  
**DEVELOPMENT OF THE DENTITION  
AND ERUPTION OF TEETH**  
**10-12 LECTURE**  
Dr. Stephen J. Moss  
New York University Dental Center  
**THE DECLINE IN CARIES PREVALENCE**  
**Noon**  
**Lunch**  
**Afternoon**  
2-5 (Official Social Program)  
5-6:30 **Free Papers**  
**CLOSING CEREMONY**  
Hotel Cariari  
**Evening**  
9:00 **FAREWELL PARTY**  
Dinner and dancing  
Costa Rica Country Club  
(optional)  
**8-12 POSTERS and  
COMMERCIAL EXHIBITS**

**COSTAMUNDO**  
P.O. Box 136 1.000 San José, Costa Rica, Telex 2582 VLINEs  
(Other countries than the United States, Canada,  
and Mexico)